CLAIMS

What is claimed is:

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1   1.   A method comprising:

2   programming a software development environment to reserve memory space

3   for direct access by a remote direct memory process.

1   2.   The method of claim 1 wherein the software development environment

2   comprises a managed runtime environment.

1   3.   The method of claim 1 further comprising programming a garbage

2   collector in the software development environment.

1   4.   The method of claim 1 wherein said programming a software

2   development environment comprises encoding a managed runtime environment to

3   recognize memory space that is accessible by a remote direct memory program.

1   5.   The method of claim 1 wherein said remote direct memory process

2   comprises a network software memory program.

1   6.   The method of claim 5 wherein said remote direct memory process

2   comprises an executable program that is enabled to operate by an operating system

3   comprising a kernel, the kernel reserving memory space to be accessed by the

4   operating system but being bypassed when the executable program of the remote

5   direct memory process accesses the memory space.

1   7.   A method comprising:

2   encoding a software module to reserve memory space that allows a network

3   software memory program to bypass a central processing unit to access the memory

4   space, the network software memory program operating according to a remote direct

5   memory access protocol.

1   8.   The method of claim 7 wherein the software module comprises a

2   managed runtime environment.

1   9.   The method of claim 7 wherein said encoding the software module

2   comprises programming a managed runtime environment to recognize memory

3   space that is accessible by a remote direct memory program

1   10.   A computer-readable medium having stored thereon at least one

2   instruction that, when executed by a computer, causes the computer to perform:

3   encoding of a managed run time environment to reserve memory space for direct

4   access by a remote direct memory program.

1   11.   The computer-readable medium of claim 10 wherein the managed

2 runtime environment reserves memory space for direct access by a network software

3 program.

1   12.   The computer-readable medium of claim 10 wherein the computer-

2 readable medium comprises a storage medium comprising an instruction set

3 configured to provide communication between the managed runtime environment and

4 the remote direct memory program.

1   13.   A system comprising:

2   a processor;

3   a memory coupled to the processor to support the processor operations;

4   a network interface controller interoperating with the processor and the

5   memory for network communications with at least another processor and

6   another network interface controller;

7   a network library accessible by the processor that provides remote direct

8   memory access capabilities;

9   a garbage collector to monitor memory usage by at least the processor; and

10   a storage medium encoded to create a software development environment to

11 reserve memory space for direct access by a remote direct memory program.

1   14.   The system of claim 13 wherein the storage medium comprises a

2 software module encoded to reserve memory space for direct access by a network

3 software memory program.

1   15.   An article comprising: (

2   a storage medium comprising machine-readable instructions stored thereon to

3 encode a managed run time environment to reserve memory space for direct access

4 by a software development environment.

1   16   The article of claim 15, wherein the storage medium further comprises

2 machine-readable instructions stored thereon to: encode a garbage collector in the

3 software development environment.

1   17.   The article of claim 16, wherein the software development environment

2 comprises a remote direct memory access environment.

1   18.   The article of claim 15, wherein the storage medium comprises

2 machine-readable instructions stored thereon to encode a software module to reserve

3 memory space for direct access by the software development environment.

1   19.   The article of claim 18, wherein the software development environment

2 comprises a remote direct memory access environment.